

SUPPLEMENTAL AMENDMENT
U.S. Appln. No. 09/870,482

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1-3. (canceled).

4. (previously presented): A colored oligomer for providing color to a coating on a communications element, said colored oligomer comprising the reaction product of:

(a) an isocyanate end-capped oligomer; and

(b) a radiation-curable monomer having both (i) a reactive functionality which is reactive with isocyanate and (ii) ethylenic unsaturation,

wherein said colored oligomer is end-capped with radiation-curable groups by covalent linkages formed by reacting said reactive functionality (i) of said radiation-curable monomer (b) with an isocyanate moiety of said isocyanate end-capped oligomer (a),

and said isocyanate end-capped oligomer (a) is the reaction product of:

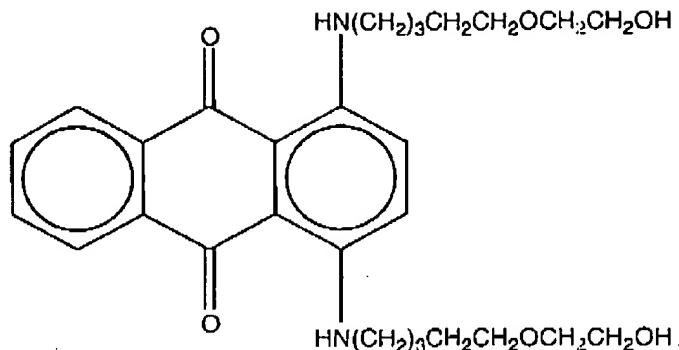
(c) at least one polyfunctional compound having at least two isocyanate reactive groups; and

(d) at least one polyisocyanate,

said polyfunctional compound (c) comprising at least one dye having at least two isocyanate reactive functionalities,

wherein said dye is an anthraquinone dye, and said anthraquinone dye has the formula

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or said anthraquinone dye is selected from the group consisting of 1,5-bis((3-hydroxy-2,2-dimethylpropyl)amino)-9,10-anthracenedione; 2,2'-(9,10-dihydro-9,10-dioxo-1,5-anthracenediyl)bis(benzoic acid, 2-hydroxyethyl ester; and 1,5-bis((2,2-dimethyl-3-hydroxypropyl)amino)-4,8-bis((4-methylphenyl)thio) anthraquinone.

5-10. (canceled).

11. (previously presented): The colored oligomer of claim 4, wherein said anthraquinone dye is 1,5-bis((2,2-dimethyl-3-hydroxypropyl)amino)-4,8-bis((4-methylphenyl)thio) anthraquinone.

12. (original): The colored oligomer of claim 4, wherein a (meth)acrylic group represents the ethylenic unsaturation (ii) in the radiation curable monomer (b).

13. (original): A photocurable resin composition for forming a colored, cured coating on an optical fiber, said resin composition comprising:

- (e) at least one (meth)acrylate end-capped urethane oligomer;
- (f) at least one photoinitiator;
- (g) at least one reactive diluent; and
- (h) at least one colored oligomer according to claim 4.

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14. (original): An optical fiber comprising a colored, cured coating, said colored, cured coating having been formed from the photocurable resin composition of claim 13.

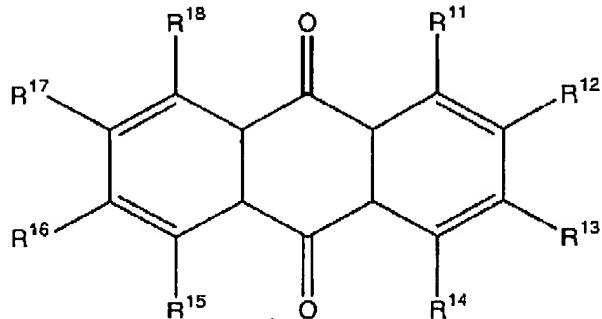
15. (previously presented): A reactive anthraquinone dye for providing color to a coating on an optical fiber, said reactive anthraquinone dye comprising an anthraquinone core group with at least one substituent comprising a radiation-curable group,

wherein said radiation-curable group is an ethylenically unsaturated group or an epoxy group.

16. (canceled).

17. (original): The reactive anthraquinone dye of claim 15, wherein said radiation curable group is a (meth)acrylic group.

18. (currently amended): The reactive anthraquinone dye of claim 15, wherein said reactive anthraquinone dye has the following formula:



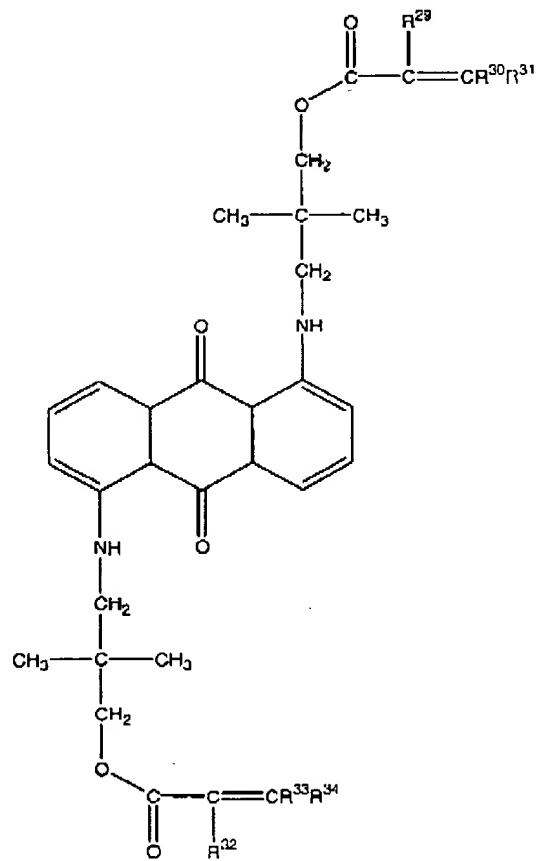
wherein R groups R¹¹, R¹², R¹³, R¹⁴, R¹⁵, R¹⁶, R¹⁷ and R¹⁸ are each independently selected from the group consisting of hydrogen, amino, hydroxy, halogen, nitro, carboxylated alkali metal, sulfated alkali metal and a hydrocarbyl group optionally containing one or more heteroatoms,

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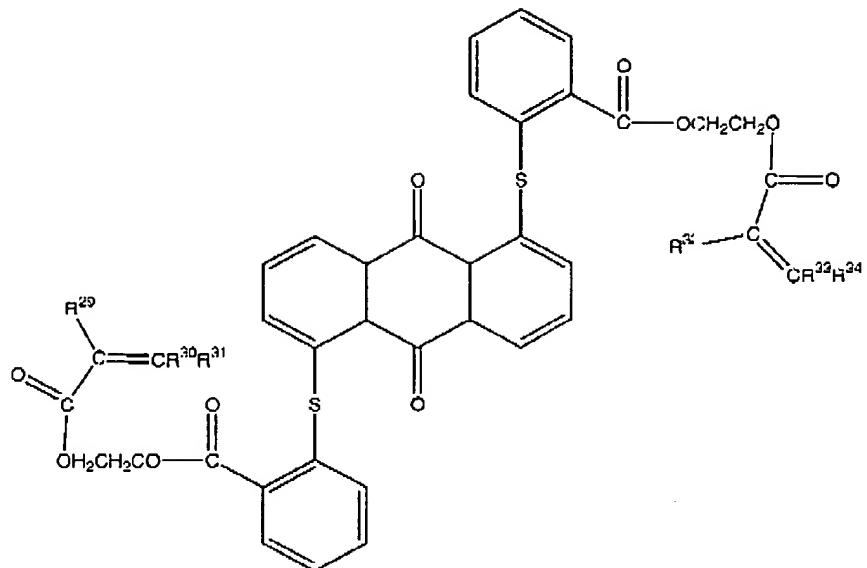
provided that at least one of R groups R¹¹ through R¹⁸ has at least one ethylenically unsaturated radiation-curable functionality.

19. (original): The reactive anthraquinone dye of claim 18, wherein one or two of said R groups R¹¹ through R¹⁸ have a (meth)acrylic functionality and at least four of said R groups R¹¹ through R¹⁸ are hydrogen.

20. (currently amended): The reactive anthraquinone dye of claim 18 for providing color to a coating on an optical fiber, wherein the reactive anthraquinone dye has one of the following formulas:

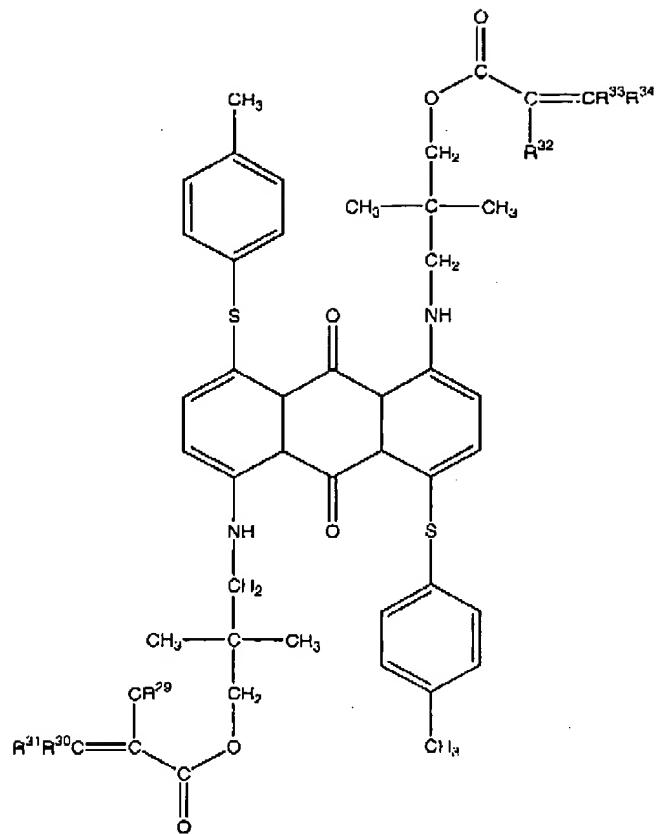


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, or

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wherein R²⁹, R³⁰, R³¹, R³², R³³, and R³⁴ are the same or different and are independently hydrogen or a C₁ to C₆ alkyl optionally substituted with one or more substituents selected from the group consisting of -OII, -NH₂, -SH, -NO₂, -CN and halogen.

21. (original): A photocurable resin composition for forming a colored, cured coating on an optical fiber, said resin composition comprising:

- (a) at least one (meth)acrylate end capped urethane oligomer;
- (b) at least one photoinitiator;
- (c) at least one reactive diluent; and
- (d) at least one reactive anthraquinone dye according to claim 18.

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22. (original): An optical fiber comprising a colored, cured coating, said colored, cured coating having been formed from the photocurable resin composition of claim 21.